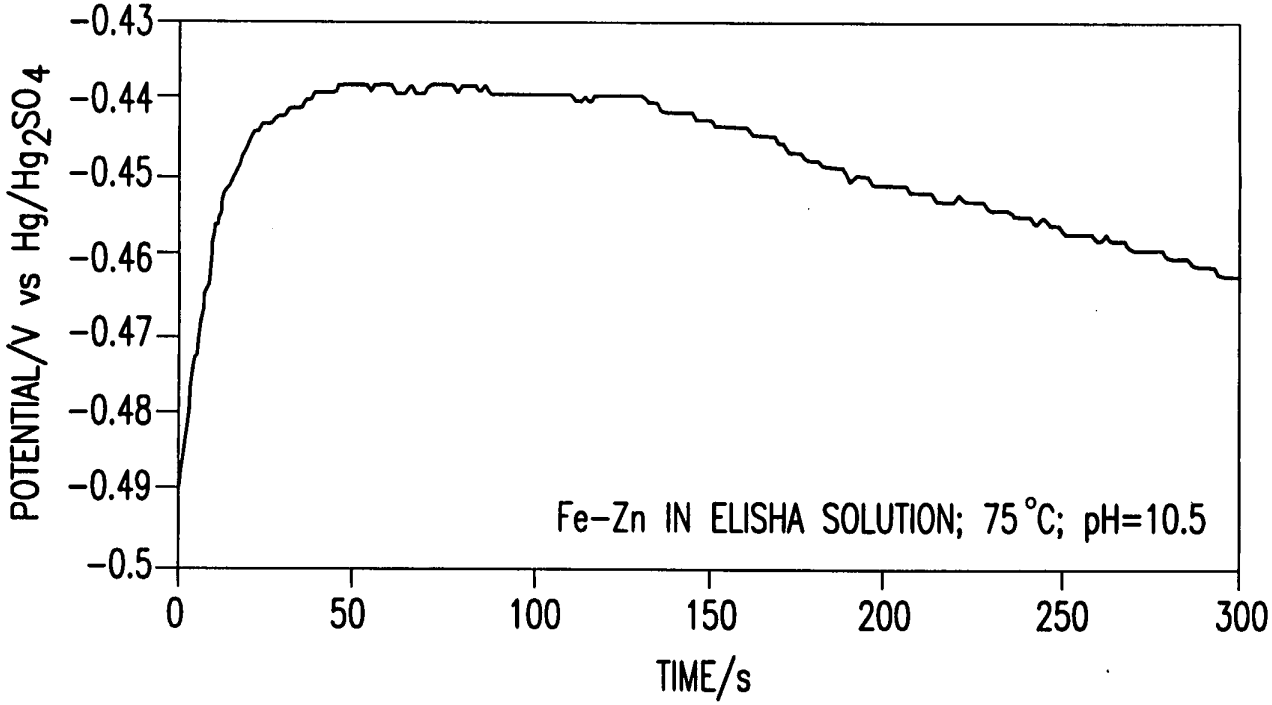


OPEN CIRCUIT POTENTIAL

FIG.1

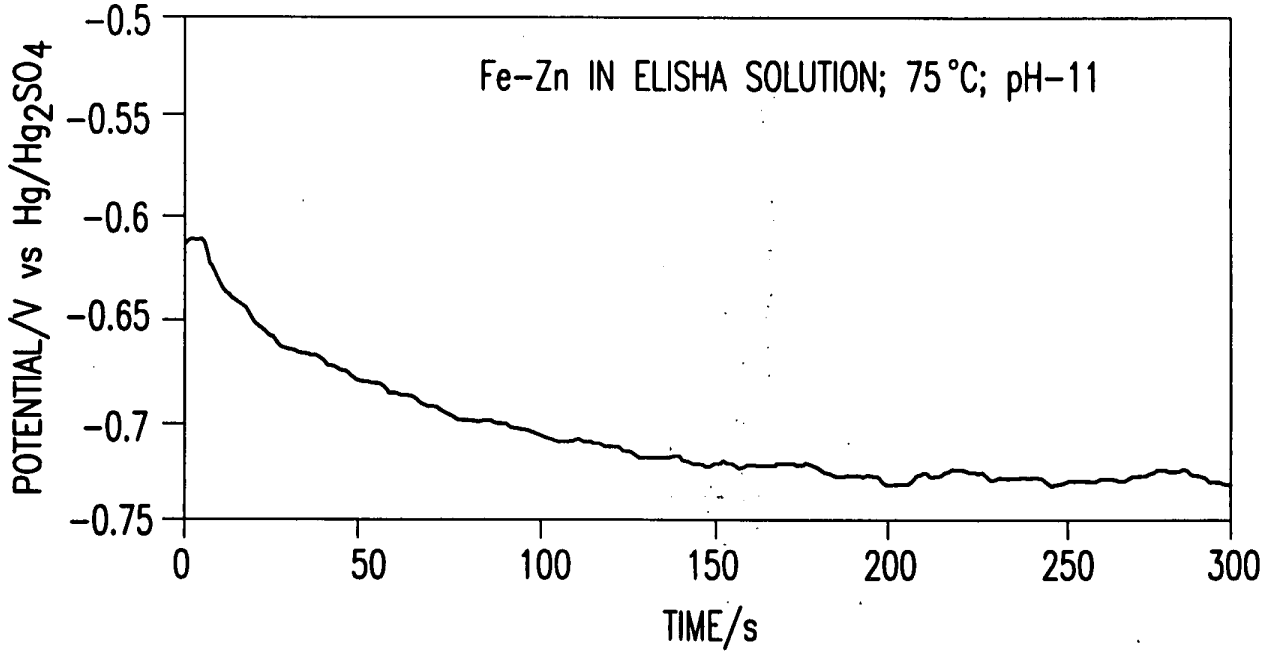
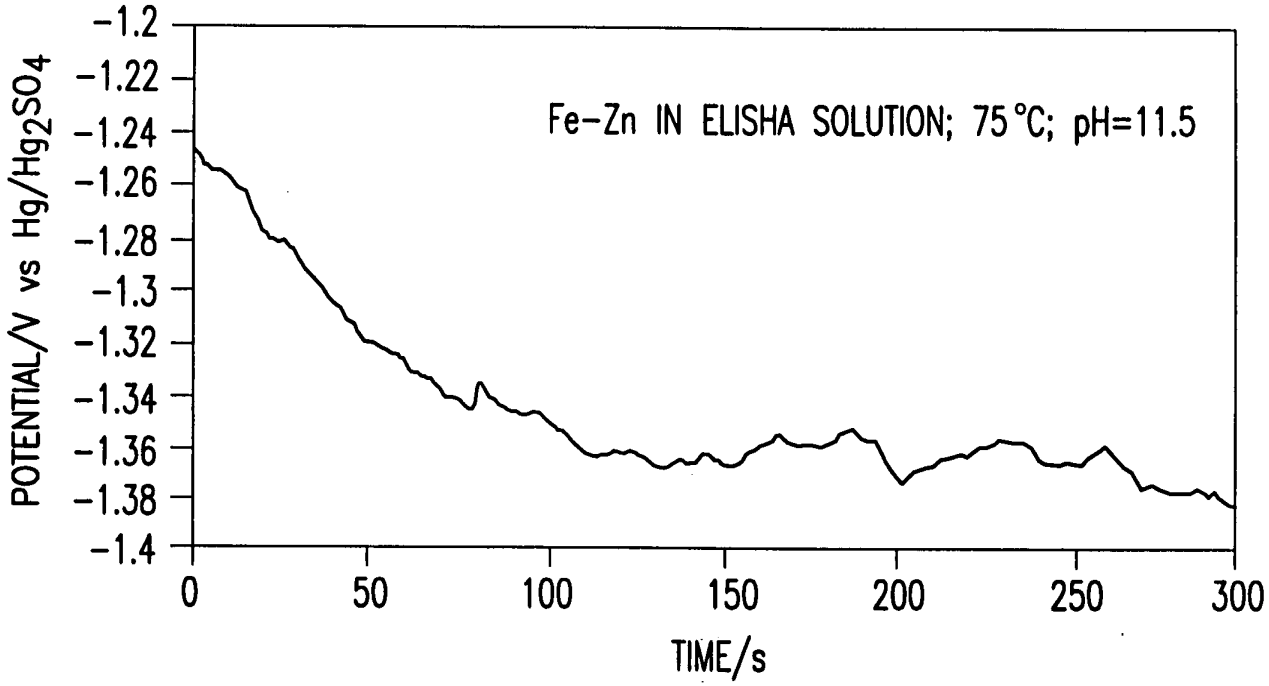

Fe-Zn IN ELISHA SOLUTION; 75 °C; pH-11
POTENTIAL/V vs Hg/Hg2SO4
-0.5
-0.55
-0.6
-0.65
-0.7
-0.75
0
50
100
150
200
250
300
TIME/s
OPEN CIRCUIT POTENTIAL

FIG.2



OPEN CIRCUIT POTENTIAL

FIG.3

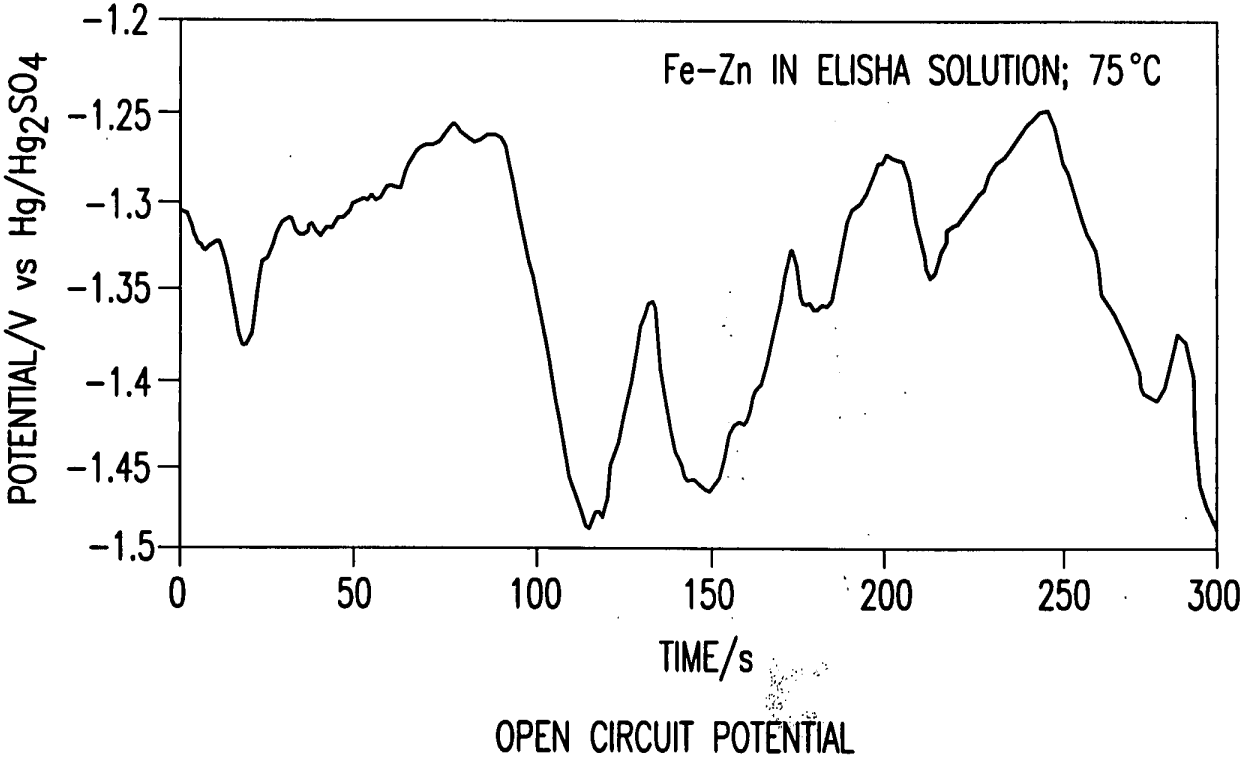
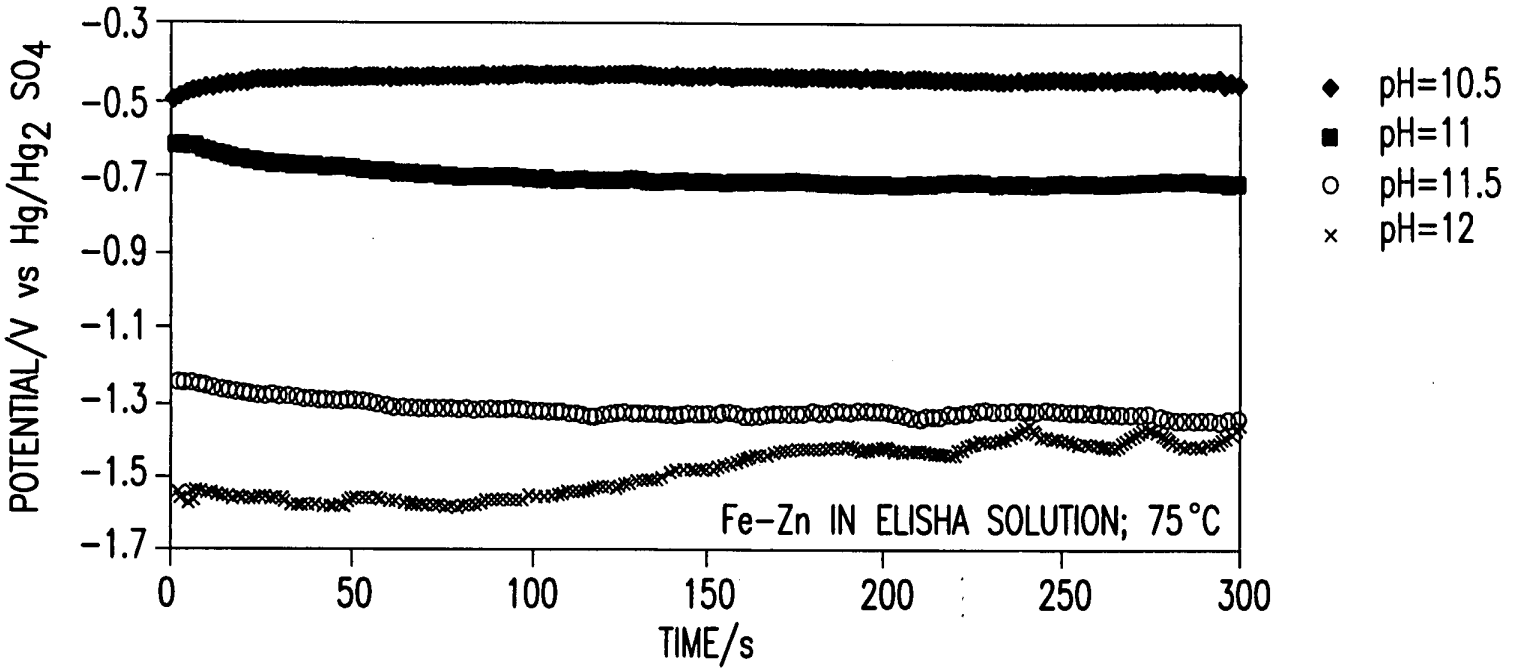
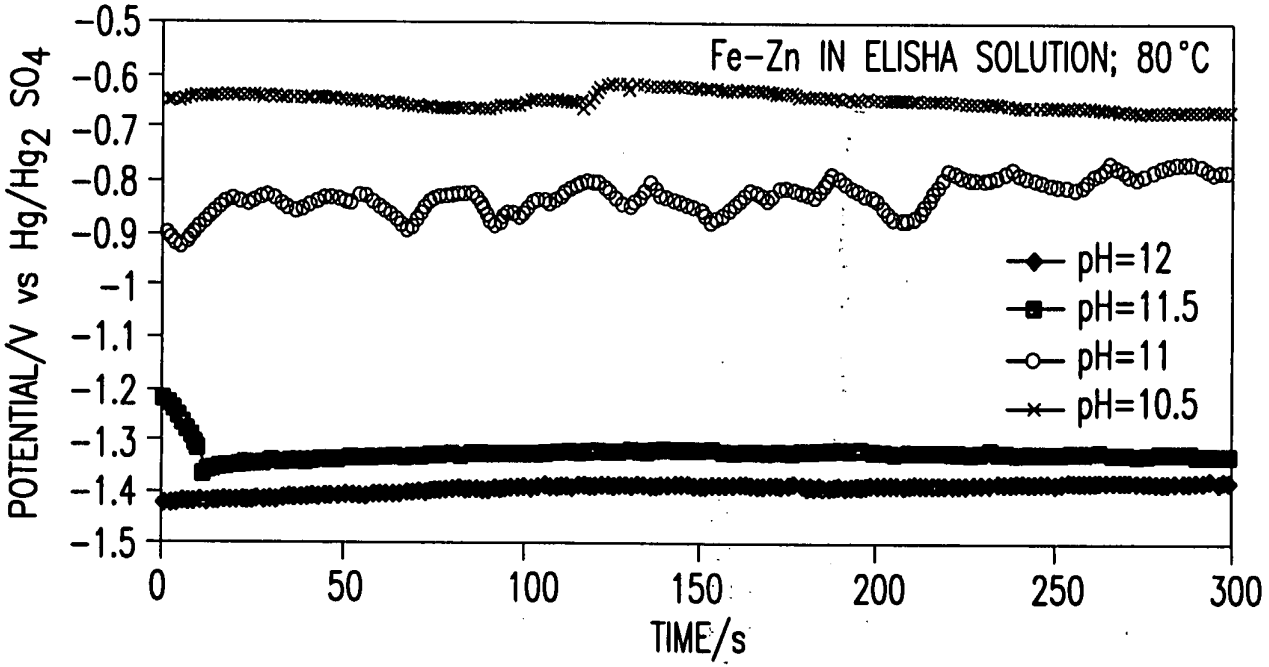

Fe-Zn IN ELISHA SOLUTION; 75°C
POTENTIAL/V vs Hg/Hg2SO4
-1.2
-1.25
-1.3
-1.35
-1.4
-1.45
-1.5
0
50
100
150
200
250
300
TIME/s
OPEN CIRCUIT POTENTIAL

FIG.4



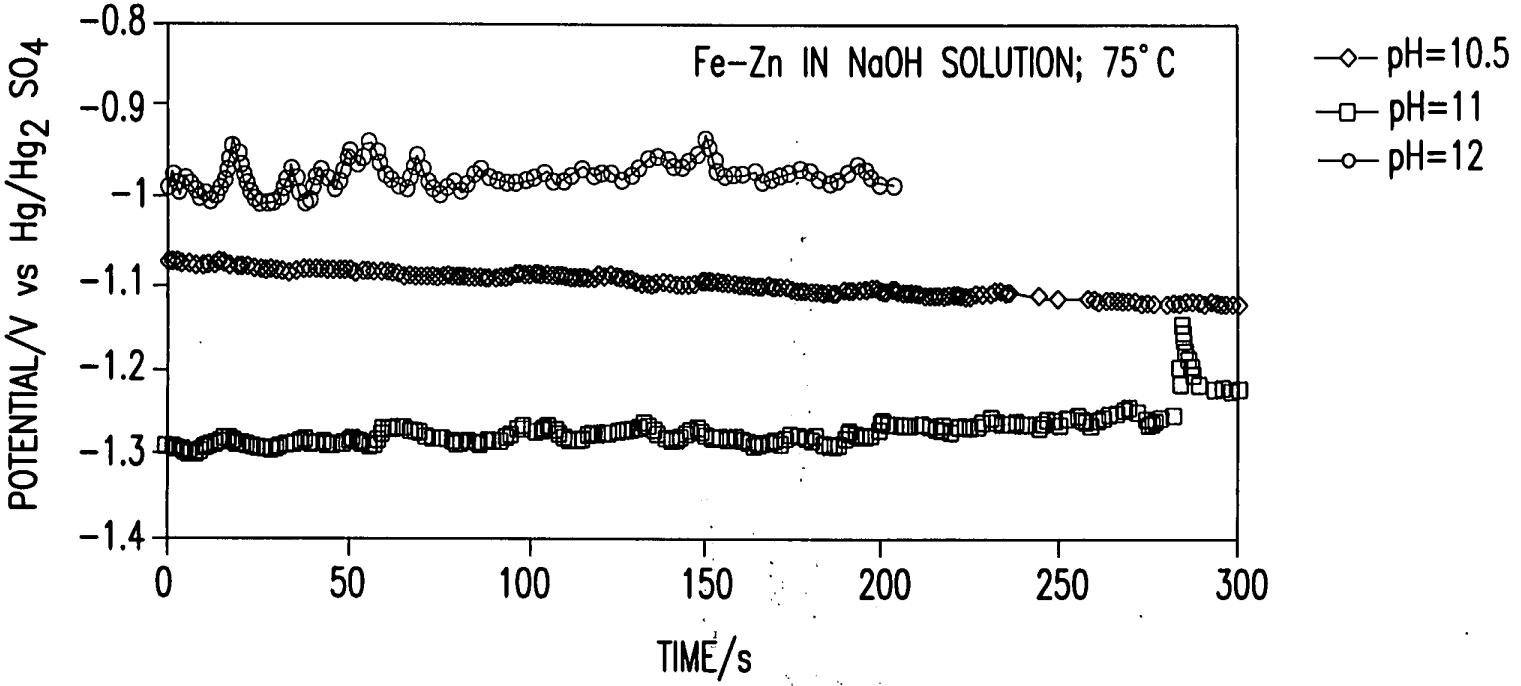
OPEN CIRCUIT POTENTIAL

FIG.5



OPEN CIRCUIT POTENTIAL

FIG.6



OPEN CIRCUIT POTENTIAL

FIG.7

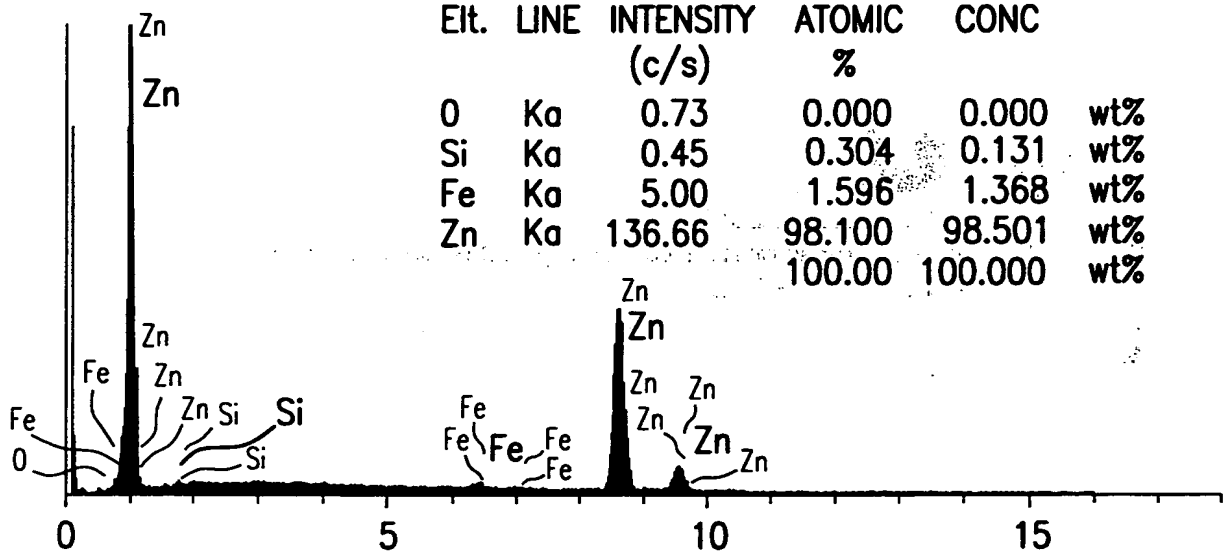
SEM & EDAX ANALYSIS OF SAMPLES RINSED IMMEDIATELY AND RINSED LATER

FIG.8

RINSED IMMEDIATELY

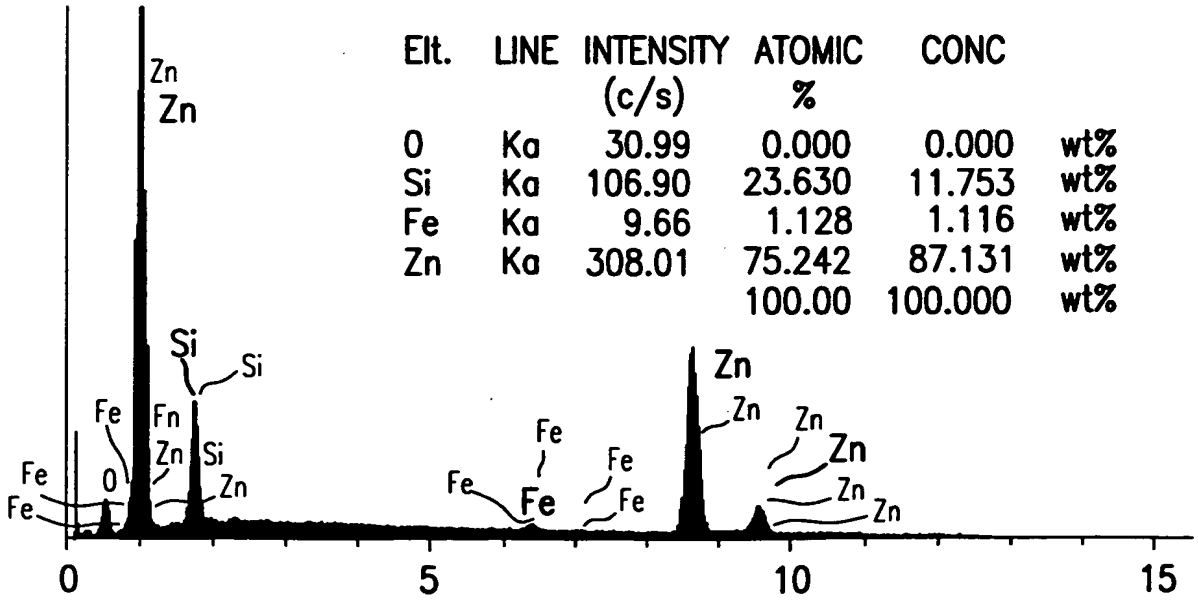
MAGNIFICATION–1000 X

Elt.	LINE	INTENSITY (c/s)	ATOMIC %	CONC	
0	Ka	0.73	0.000	0.000	wt%
Si	Ka	0.45	0.304	0.131	wt%
Fe	Ka	5.00	1.596	1.368	wt%
Zn	Ka	136.66	98.100	98.501	wt%
			100.00	100.000	wt%



RINSED LATER

Elt.	LINE	INTENSITY (c/s)	ATOMIC %	CONC	
0	Ka	30.99	0.000	0.000	wt%
Si	Ka	106.90	23.630	11.753	wt%
Fe	Ka	9.66	1.128	1.116	wt%
Zn	Ka	308.01	75.242	87.131	wt%
			100.00	100.000	wt%



COMPARISON OF Si CONTENT FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE

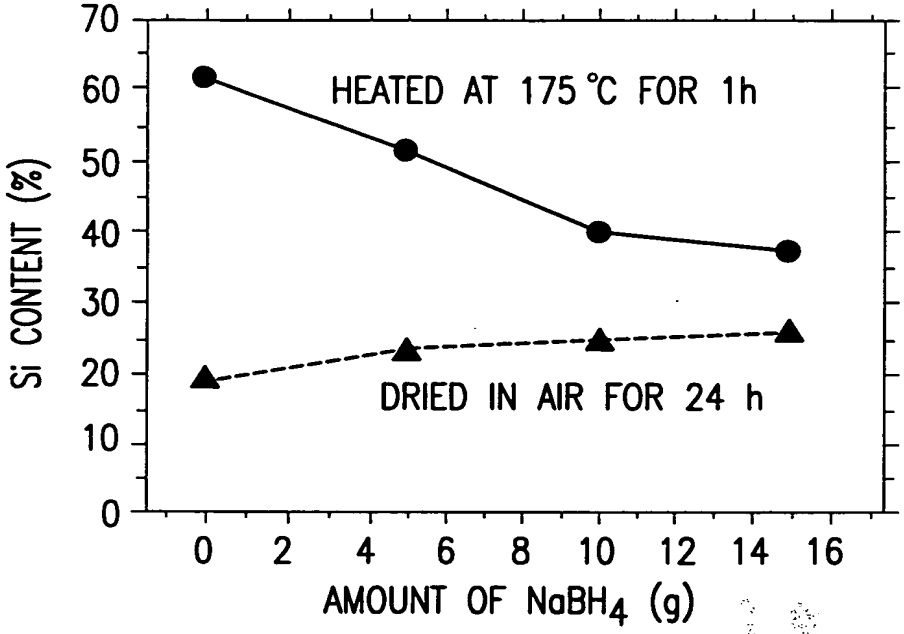


FIG.9

DROP IN CORROSION RESISTANCE FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE
SAMPLES WERE DRIED IN AIR FOR 24 HOURS AND LEFT IN WATER FOR 1 WEEK

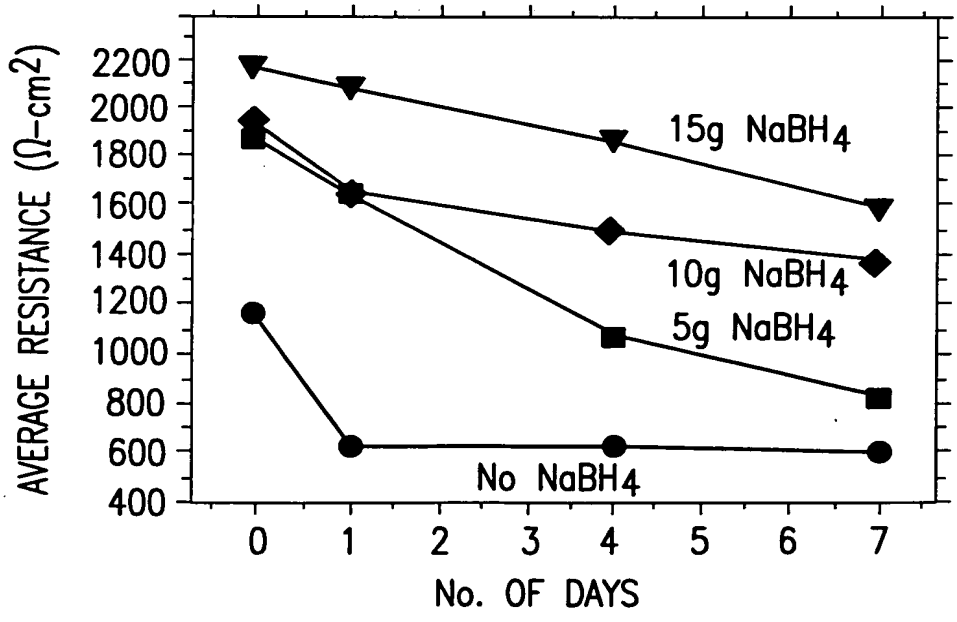


FIG.10

DROP IN CORROSION RESISTANCE FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED AT 175 °C FOR 1 HOUR AND LEFT IN WATER FOR 1 WEEK

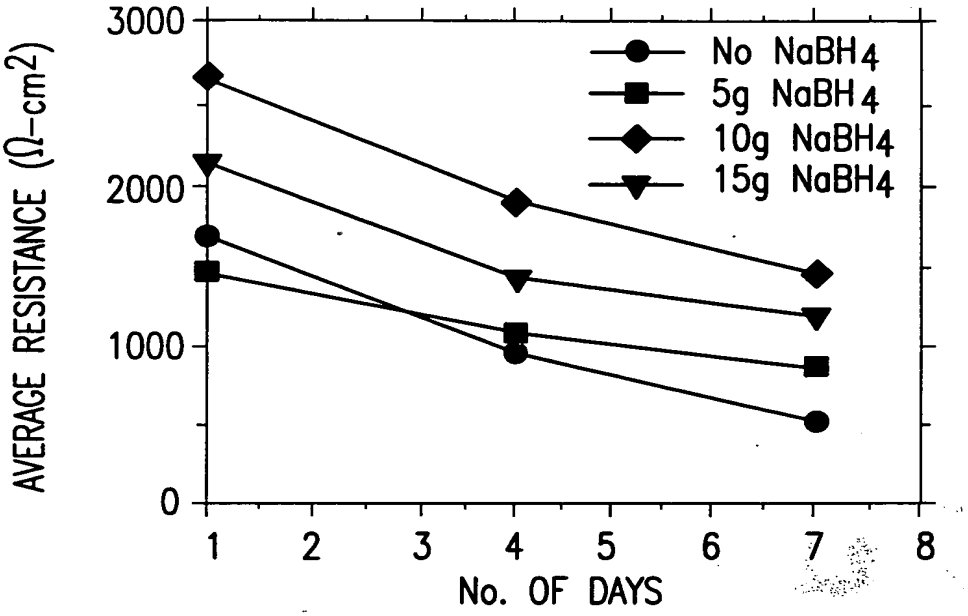


FIG.11

CVs FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED IN THE AIR FOR 24 HOURS

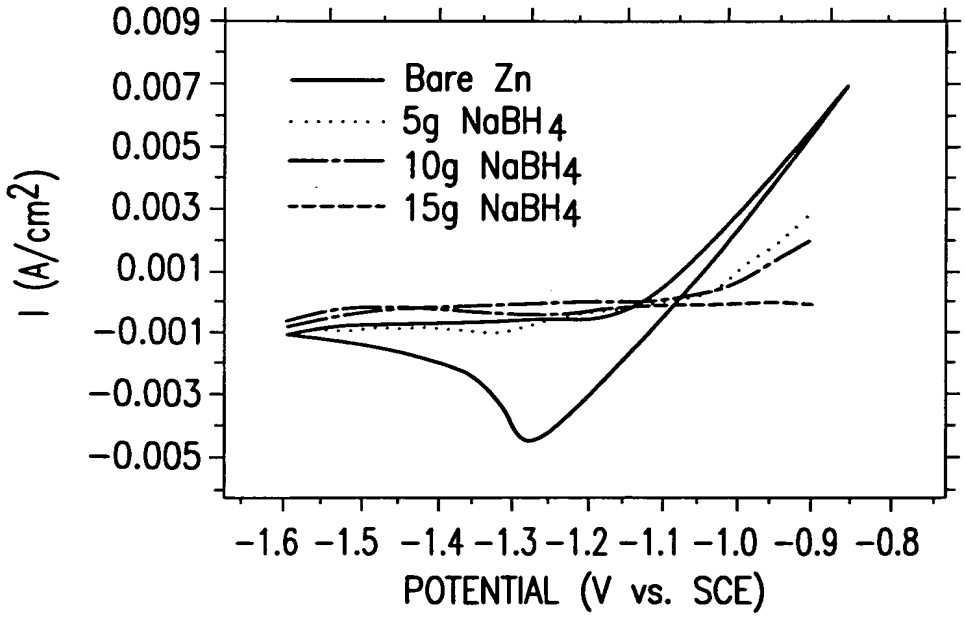


FIG.12

INHIBITING EFFICIENCY OBTAINED FROM CVs FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED IN AIR FOR 24 HOURS

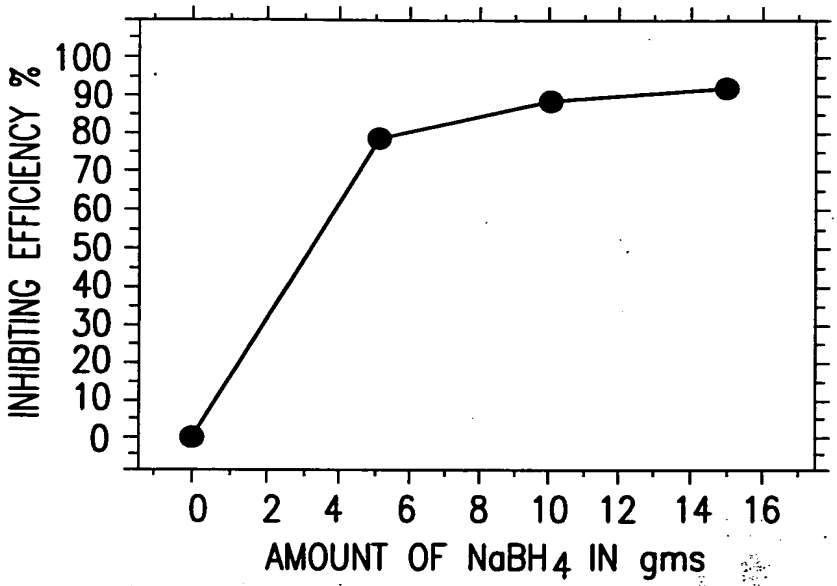


FIG.13

CVs FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE HEATED AT 175 °C FOR 1 HOUR

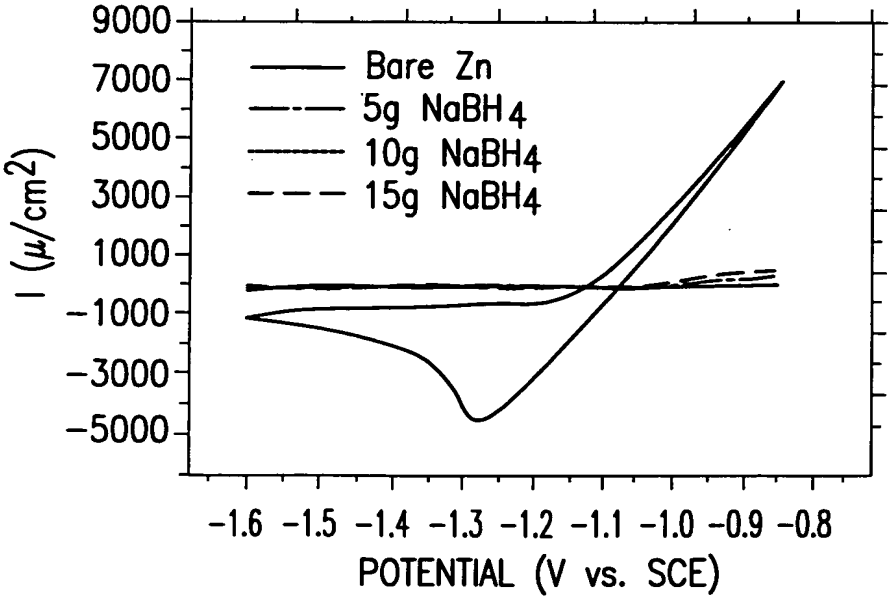


FIG.14

INHIBITING EFFICIENCY OBTAINED FROM CVs FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE HEATED AT 175 °C FOR 1 HOUR

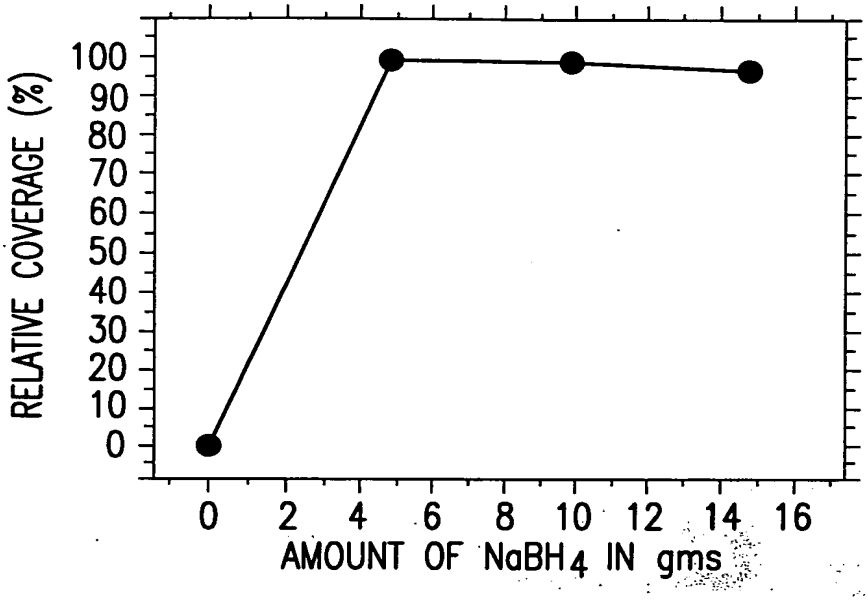


FIG.15

CVs FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED IN AIR FOR 24 HOURS AND LEFT IN WATER FOR 1 WEEK

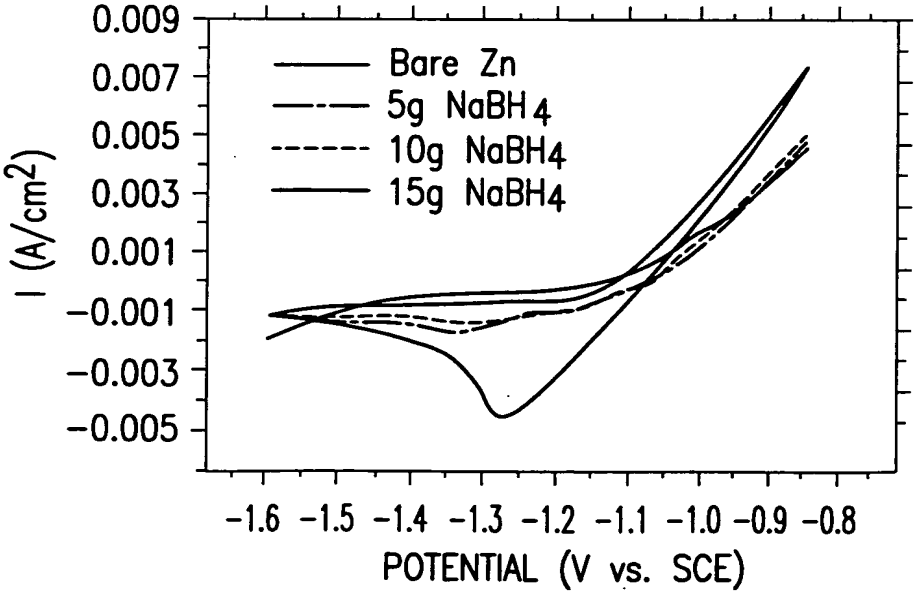


FIG.16

CHANGE IN THE INHIBITING EFFICIENCY FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED IN AIR FOR 24 HOURS AND LEFT IN WATER FOR 1 WEEK

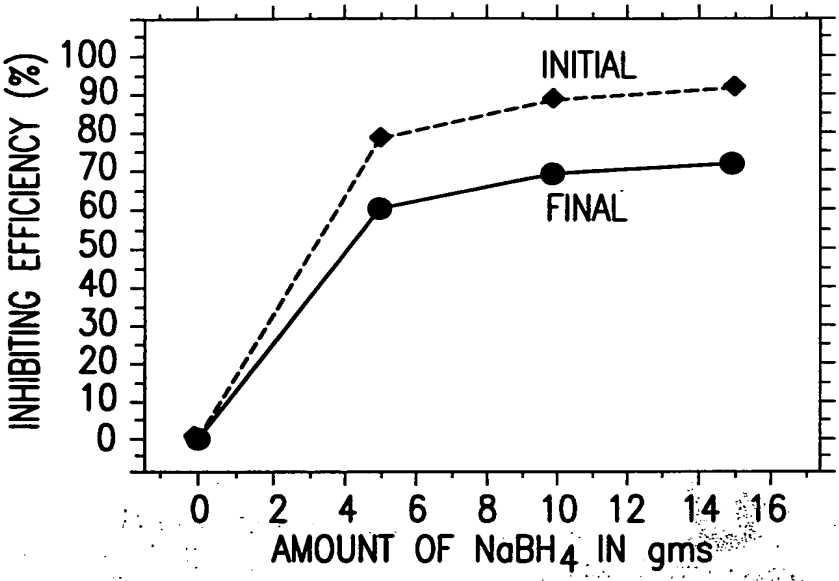


FIG.17

CVs FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED AT 175°C FOR 1 HOUR AND LEFT IN WATER FOR 1 WEEK

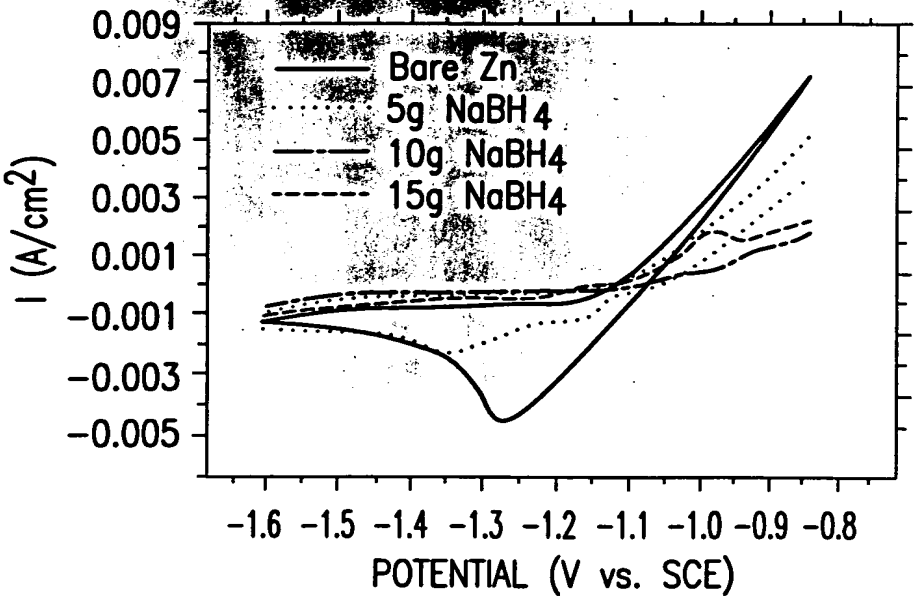


FIG.18

CHANGE IN THE INHIBITING EFFICIENCY FOR SAMPLES MINERALIZED IN 1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE SAMPLES WERE DRIED AT 175 °C FOR 1 HOUR AND LEFT IN WATER FOR 1 WEEK

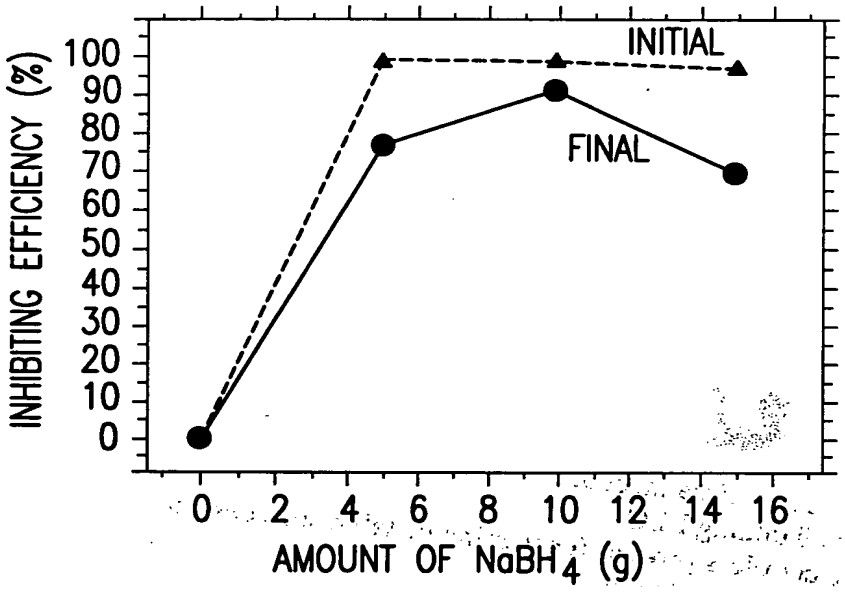
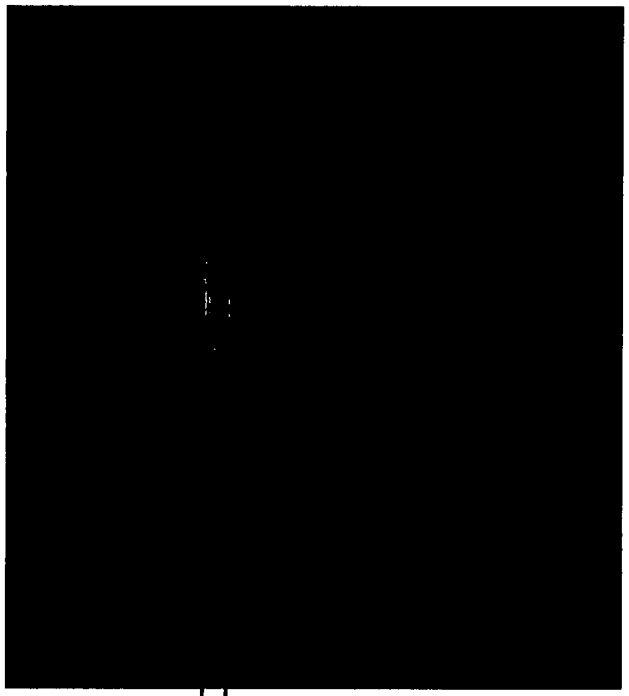


FIG.19

Change in Morphology for sample mineralized in 1:3 PQ solution with no current and with 10g/L of sodium Borohydride

Samples were heated at 175° C for 1 hour.

Before Corrosion



Magnification:2000X

After Corrosion

Magnification:500X

FIG.20

CHANGE IN Si CONCENTRATION FOR SAMPLES MINERALIZED IN
1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE
SAMPLES WERE DRIED IN AIR FOR 24 HOURS
AND LEFT IN WATER FOR 1 WEEK

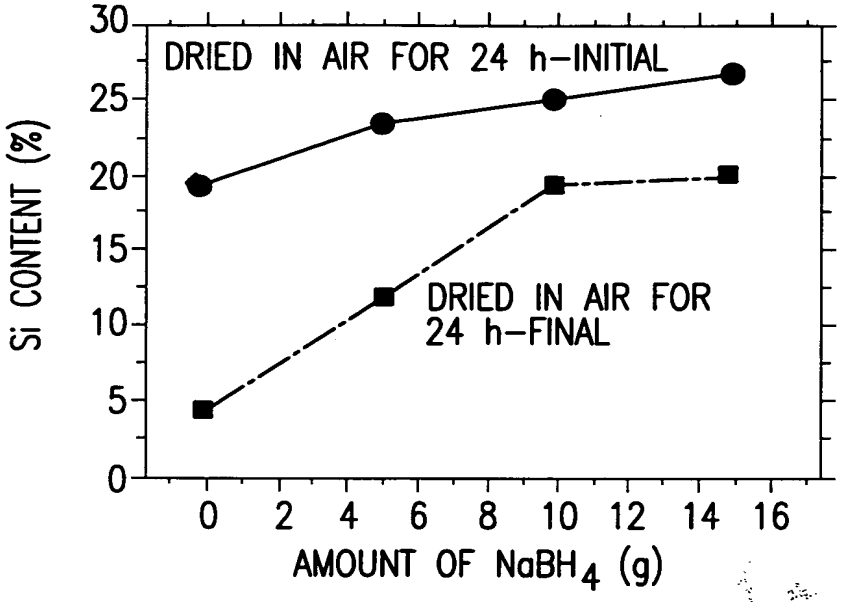


FIG.21

CHANGE IN Si CONCENTRATION FOR SAMPLES MINERALIZED IN
1:3 PQ SOLUTION WITH NO CURRENT AND WITH DIFFERENT AMOUNTS OF SODIUM BOROHYDRIDE
SAMPLES WERE DRIED IN AIR FOR 24 HOURS
AND LEFT IN WATER FOR 1 WEEK

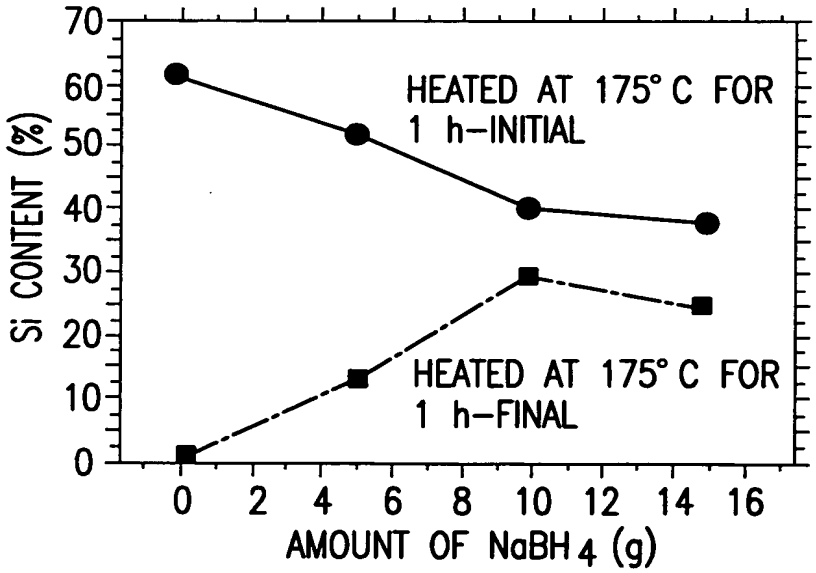


FIG.22